RESP 1 3 DEC 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P207433PCT International application No. PCT/NL 03/00198			FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
			International filing date (day/month/year) 18.03.2003	Priority date (day/month/year) 18.11.2002					
Internation A61K3		ent Classification (IPC) or I	poth national classification and IPC						
Applican GENE		JTRITION INVESTM	ENT COMPANY et al.	i.v.					
1. Th	his intenuthority	national preliminary exa and is transmitted to th	amination report has been prepared by this e applicant according to Article 36.	s International Preliminary Examining					
2. Tł	2. This REPORT consists of a total of 5 sheets, including this cover sheet.								
×	bee	n amended and are the	anied by ANNEXES, i.e. sheets of the des basis for this report and/or sheets contair on 607 of the Administrative instructions u	cription, claims and/or drawings which have ning rectifications made before this Authority nder the PCT).					
Tì	hese an	nexes consist of a total	of 2 sheets.						
3. Th	his repo	rt contains indications r	elating to the following items:						
ı	\boxtimes								
II		Basis of the opinion Priority							
		<u>-</u>	opinion with regard to novelty, inventive s	step and industrial applicability					
١٧	<i>'</i> 🗆	Lack of unity of inven	- · · · · · · · · · · · · · · · · · · ·						
V		Reasoned statement citations and explana	under Rule 66.2(a)(ii) with regard to nove tions supporting such statement	ity, inventive step or industrial applicability;					
V		Certain documents ci	ted						
VI	II 🗆	Certain defects in the	international application						
VI	III - 🗆	Certain observations	on the international application						
Date of s	ubmissio	on of the demand	Date of completion	n of this report					
16.06.2			14.12.2004						
		address of the Internatio	nal Authorized Officer	Authorized Officer					
	ary exam	ining outhorthy	l l						
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00198

1 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

Description, Pages									
	1-1	5	as orig	as originally filed					
÷	Claims, Numbers								
	1-1	2	receive	received on 17.11.2004 with letter of 17.11.2004					
2.	Wit lan	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.							
	These elements were available or furnished to this Authority in the following language: , which is:								
		I the language of a translation furnished for the purposes of the international search (under Rule 23.1(
	☐ the language of publication of the international application (under Rule 48.3(b)).								
	the language of a translation furnished for the purposes of international preliminary examinational Science (No. 1).								
3.	Wit inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the inte	rnational applica	ation in written form.					
		filed together with th	e international a	oplication in computer readable form.					
•									
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.	The	The amendments have resulted in the cancellation of:							
		the description,	pages:						
	×	the claims,	Nos.:	13-15					
		the drawings,	sheets:						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sh report.)	neet containing s	such amendments must be referred to under item 1 and	annexed to this				
6.	Add	ditional observations, if necessary:							

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00198

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-12

No:

Claims

Yes: Claims

1-12

Claims No:

Industrial applicability (IA)

Yes: Claims

1-12

No: Claims

2. Citations and explanations

see separate sheet

Inventive step (IS)

Re Item V: Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: EP-A-0 815 857 D2: EP-B-0 829 261 D3: WO 01/74345 A D4: WO 99/22728 A D5: FR-A-2 790 645

D6: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 01, 30, 1998 & JP 09 227398 A (ZERIA PHARMACEUT CO LTD)

D7: US 2001/051160 A1

D8: DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; December 1997 (1997-12), DOUCET E. ET AL.; XP002246534, Database accession no. PREV199800081806

Unless otherwise stated, reference is made to the relevant passages cited in the International Search Report for each of these documents.

D1 describes the use of procyanidin, extracted for e.g. from tamarind seeds to treat obesity. The procyanidin of D1 is in a form of a polymer with a degree of polymerisation between 2 and 80. The compositions of D1 are suitable for oral administration and can contain additional plant extracts having antiobesity effects as well as carriers and excipients commonly used in the art (e.g. carboxymethylcellulose, acacia gum, carrageenan).

D2 and D3 both describe oral flavonoid compositions to either promote fat-degradation, suppress appetite, treat obesity, induce weight loss or prevent weight gain. The flavonoids originating in each case from plant extracts (such as tamarind).

D4 also describes the use of flavonoids to treat obesity, and in particular chrysin.

D5 describes an oral nutritional supplement containing polyphenol extracted from grape seeds to treat obesity.

D6 describes an antiobesity agent containing at least one plant selected from grape seed, Pu'er tea or apple among others.



D7 also describes oral nutritional supplements containing caffeine (in the form of guarana and cola nut) and fibers (guar gum, oat fiber, apple pectin) to control weight. The caffeine acts as a thermogenic fat burning agent and the fibers are used to minimize the tendency to store fat.

D8 also describes caffeine as an energy intake reducer and energy expenditure promoter, while dietary fibers have been shown to increase satiety and fullness.

Thus, none of the prior art documents describes the use of a preparation containing 0.01-250 mg flavonoid and 0.1-100 mg procyanidin to treat or prevent overweight as well as the corresponding nutritional composition. Claims 1-12 are therefore new in view of D1-D8 (Article 33(2) PCT).

Similarly, claims 1-12 involve an inventive step over the cited prior art documents since tests have been filed by the Applicant showing the synergistic effect of chrysin and grape seed on the reduction of apetite in rats (Article 33(3) PCT).